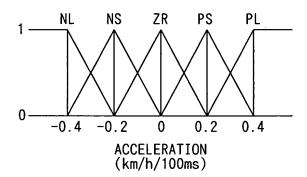
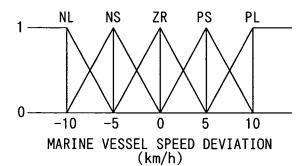


F I G. 2A





### ANTECEDENT MEMBERSHIP FUNCTION

# F I G. 2B

#### **ACCELERATION**

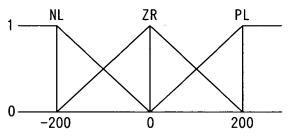
	NL	NS	ZR	PS	PL
NL	50	50	0	-50	-100
NS	100	100	20	-10	-100
ZR	100	100	20	-10	-100
PS	10	10	-10	-100	-200
PL	-50	-100	-200	-200	-500

AMOUNT OF CHANGE IN ENGINE SPEED (rpm/100ms)

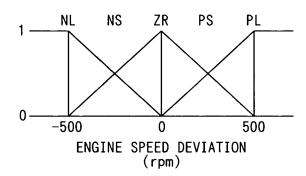
FUZZY RULE

MARINE VESSEL SPEED DEVIATION

F I G. 3A



AMOUNT OF CHANGE IN ENGINE SPEED (rpm/500ms)



#### ANTECEDENT MEMBERSHIP FUNCTION

F I G. 3B

AMOUNT	0F	CHANGE	IN	ENGINE	SPEED

AMOUN	OF CHANGE	IN ENGINE ZR	SPEED
NL	8.621	0.345	-0.345
ZR	4.138	0.000	-4.138
PL	0.345	-0.345	-8.621
AMOUNT OF	CHANGE IN (%)	THROTTLE V /500ms)	ALVE POSIT

F I G. 4

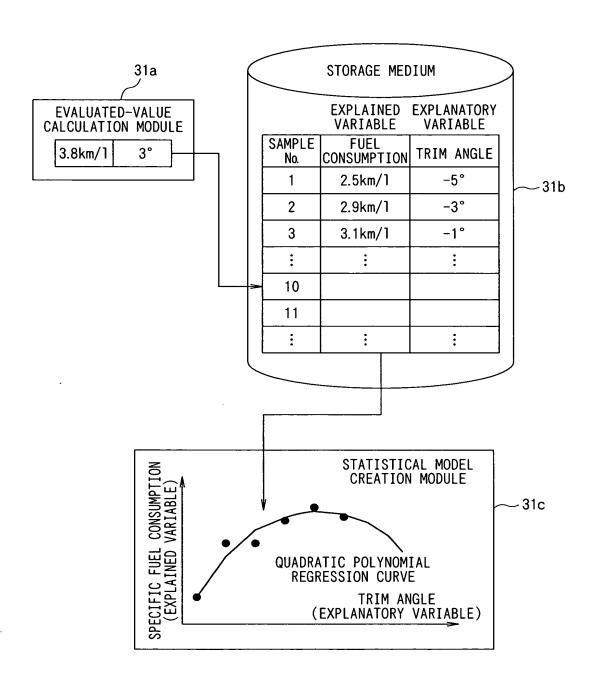
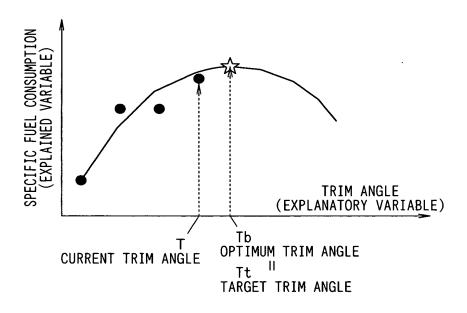
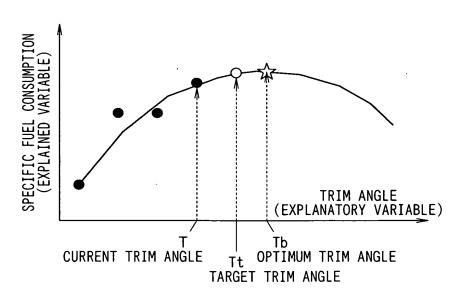


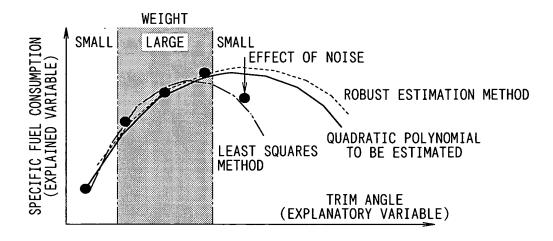
FIG.5A



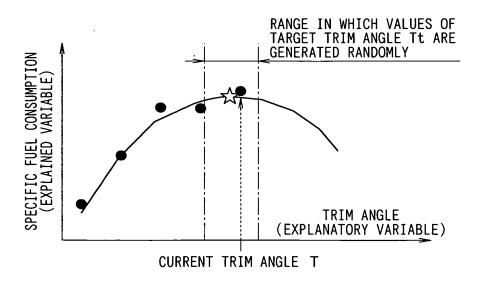
F I G. 5 B



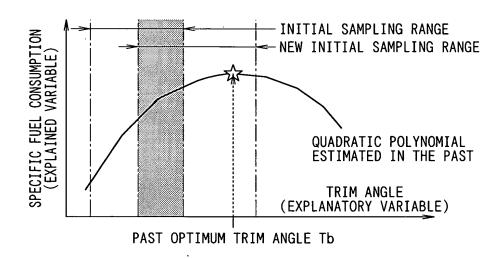
F I G. 6



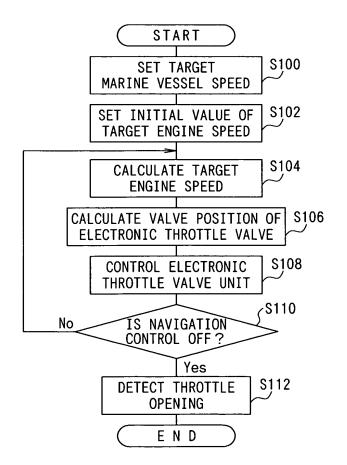
F I G. 7



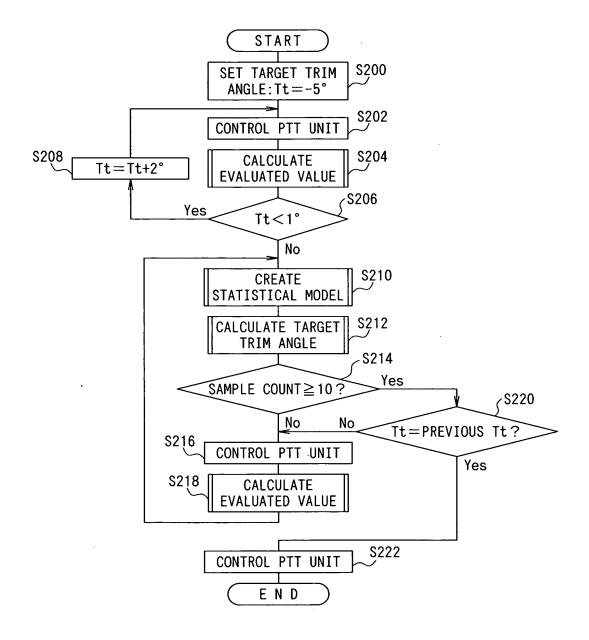
7/10 F I G. 8



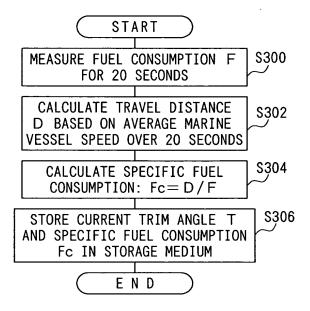
F I G. 9



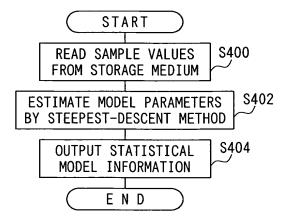
F I G. 10



### F I G. 11



## F I G. 12



## F I G. 13

